

# NAMAN YESHWANTH KUMAR

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## EDUCATION

### Master of Science

Arizona State University - Computer Eng (GPA 3.8/4.0)

Expected: May 2026

Tempe, AZ

- Relevant course work: VLSI, Foundations of Algorithms, Reinforcement Learning in Robotics, Artificial Intelligence, Perception in Robotics, Hardware Co-design, SoC Design, Advanced Computer Architecture

### Nanodegree - Self-Driving Car Engineer

February 2023

Udacity

- Key Areas: Machine Learning, Sensor Fusion, Computer Vision, Path Planning, and Control, with hands-on projects in object detection, trajectory tracking, and autonomous vehicle motion

### Bachelor of Engineering

BMS College of Engineering - Electrical and Electronics Eng

June 2022

Bengaluru, India

## TECHNICAL SKILLS

**Programming Languages:** Python | JavaScript | TypeScript | C++ | MATLAB | SQL | Shell Script

**AI/ML & Software Engineering:** Machine Learning | Computer Vision | Gen AI | Software Engineering | Production Systems

**Frameworks & Tools:** TensorFlow | PyTorch | Docker | Django | React | Material-UI | Plotly

**Cloud & Development:** AWS | Git | CI/CD | RESTful APIs | Database Design | System Scaling

## WORK EXPERIENCE

### Software Developer

October 2022 - April 2024

NCR GOLD

Bengaluru, India

- Built and shipped production-ready ordering platform using Django to streamline inventory and billing for wholesale jewelry business; engineered scalable systems processing 10,000+ orders with improved efficiency.
- Implemented modern software engineering practices including containerization with Docker and AWS cloud deployment, delivering scalable performance and seamless production updates.

### Research Intern

October 2021 - August 2022

Indian Institute of Science

Bengaluru, India

- Led the Propulsion Circuit Team, optimizing a 1.5kW axial flux BLDC motor with Ansys Maxwell; boosted efficiency and responsiveness by upgrading material and coil designs and implementing a new FOC system.
- Conducted advanced research on speed control algorithms and battery management systems for eVTOL aircraft leveraging Simulink, contributing to notable improvements in efficiency and reliability of aircraft propulsion systems.

## PROJECT EXPERIENCE

### Trezzit - Full Stack Bill Splitting Application

February 2025 - Present

- Built and shipped production-ready Trezzit, a full-stack expense management application solving dual challenges of intuitive item-wise bill splitting and integrated personal finance tracking using cutting-edge AI approaches.
- Led complete product development lifecycle from vision to deployment, scaling systems to support 120+ active users with modern tools including Python, TypeScript, and cloud infrastructure.
- Currently driving product roadmap and scaling systems to 1,000 members through iterative development and user feedback. Tech Stack: Django | React | Google Generative AI (Gemini) | Material-UI | Docker

### Intel Automated Self-Checkout (Open Source Contributor)

January 2025 - February 2025

- Developed production-ready software framework in Python for LiDAR sensor data analysis in autonomous checkout systems; demonstrated strong engineering skills through successful main branch contributions after comprehensive code review.
- Implemented modern development practices with Docker and CI/CD pipelines, collaborating with distributed engineering teams to ship scalable software solutions.

### Raspberry Pi Self-Driving Car

February 2022 - July 2022

- Developed an autonomous vehicle using Raspberry Pi and Arduino, featuring lane detection, traffic sign recognition, and seamless integration via the I2C communication protocol.
- Streamlined data collection and neural network training with a Bluetooth joystick mode in a collaborative team effort; project received the Best Project Award in the EEE Department among approximately 40 submissions.

## AWARDS & HONORS

- Won the 'Best Use of AI' award at Strategy X DevHacks'25 at ASU for developing AdaptED AI, a platform leveraging Google's Gemini AI to generate personalized learning paths and resources for students.
- Secured second place in the Hack SoDA 2024 at ASU with a team of four, developing PassGen, a secure and offline Chrome Extension for generating unique passwords, during a 24-hour hackathon sponsored by Amazon.
- Ranked among the Top Ten teams in the e-Yantra national-level robotics competition organized by IIT Bombay, for designing and developing a self-balancing dairy bike on CoppeliaSim, February 2022.